

# THE NUCLEUS

October 2008

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## Monthly Meeting

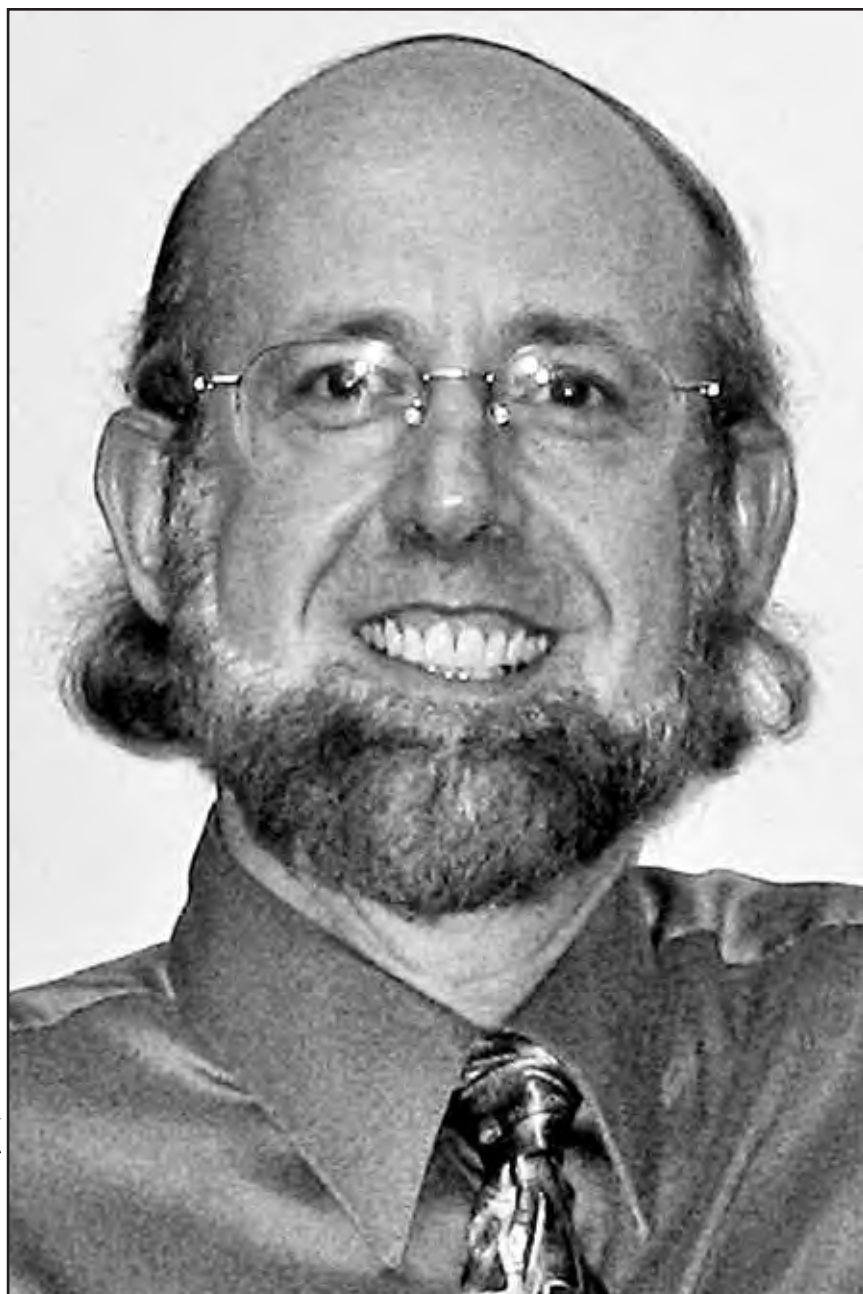
*Henry Hill Award to Dr. Michael Singer*

*Dr. Peter Meltzer to speak at Henderson House*

## 2008 Buyer's Guide

## NESACS-GDCh German Exchange Program

## National Chemistry Week Puzzle Contests



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**Cover:** *October speaker, Dr. Peter Meltzer, President and Co-Founder of Organix Inc., Woburn, MA. (Photo courtesy of Dr. Meltzer)*

**Deadlines:** *December 2008 Issue: October 13, 2008*  
*January 2009 Issue: November 10, 2008*

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# Call for Applications

*YCC/NESACS–JCF/GDCh  
Exchange to Germany  
March 8–15, 2009*

The Younger Chemists Committee (YCC) of the Northeastern Section and the NESACS Education Committee invite applications from undergraduate and graduate students of chemistry, biochemistry, and chemical engineering at colleges and universities within the Section to spend a week in Germany as the guests of the *Jungchemikerforum* (Young Chemists Committee; JCF) of the *Gesellschaft Deutscher Chemiker* (German Chemical Society; GDCh). The exchange group will consist of up to 12 students and a number of faculty and industrial representatives.

The trip to Germany will begin with an overnight flight from Boston on Saturday, March 7; return to Boston will be on Sunday, March 15. The visit will begin with excursions to industrial, academic, scientific, and

cultural institutions in the Essen-Mülheim-Düsseldorf area, and will include the JCF student chemistry research conference (*Frühjahrssymposium*) in Essen on Thursday-Saturday, March 12-14, which will provide the opportunity for the participants to engage in extensive networking with German and other European students and to take part in discussions focused on careers, education, and international opportunities. Each student representative from NESACS will be expected to make a poster or oral presentation on his/her research at the *Frühjahrssymposium* and upon return at the Northeast Student Chemistry Research Conference (NSCRC) on Saturday, April 25. Air tickets will be provided by NESACS; accommodations in Germany will be covered by GDCh. A working knowledge of German, while useful, will not be specifically required; the language of the *Frühjahrssymposium* and the other events will be English.

Application forms are available on the YCC <<http://www.nsycc.org>> and NESACS <<http://www.nesacs.org>> websites. The following material must be submitted electronically with the

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application form: 1) the abstract of the presentation to be made at the *Frühjahrssymposium* and the NSCRC; 2) an essay on the relevance of the exchange to the student's professional goals; 3) a letter of recommendation from the student's research supervisor; 4) approval from the supervisor and the chair of the department of the student's absence from classes, the research laboratory, and other responsibilities. In addition, finalists will be interviewed by members of the Organizing Committee.

For more information, contact Dr. Michael Strem, Chair of the Organizing Committee, at <[mstrem@strem.com](mailto:mstrem@strem.com)>.

**Deadline for electronic receipt of applications: November 5, 2008, at 5:00 p.m. ◇**

# Monthly Meeting

*The 890<sup>th</sup> Meeting of the Northeastern Section of the American Chemical Society*

**Henry Hill Award**, Presentation and Recognition of 50-year members

**Wednesday, October 15, 2008**

**Northeastern University – Henderson House**

99 Westcliff Road, Weston, MA 02493 (781-235-8517)

**4:30 pm** Board Meeting

**5:30 pm** Social Hour

**6:15 pm** Dinner

**7:15 pm** Presentation of 50-Year Members

**7:30 pm** Award Meeting, Dr Marietta Schwartz, NESACS Chair, Presiding  
Henry A. Hill Award for Outstanding Service to the Northeastern Section to **Michael Singer**  
Evening Lecture: **Dr Peter Meltzer**, President, Organix, Inc.,  
Woburn, MA  
*The Establishment and Evolution of a Small Chemical Business in Massachusetts*

Dinner reservations should be made no later than noon, Wednesday October 8, 2008. Please call or fax Marilou Cashman at (800) 872-2054 or e-mail at MCash0953(at)aol.com. Reservations not cancelled at least 24 hours in advance must be paid. Members, \$30.00; Non-members, \$35; Retirees, \$20; Students, \$10.

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<http://www.northeastern.edu/henderson/directions.html>

**From Route 9W exit off I-95:** travel approx 2 miles. Shortly after the Rte 16 underpass, watch for Cliff Road exit ramp. Merge onto Cliff Road, travel 1.4 miles, turn left onto Westcliff Road. ¼ mile to Henderson House

**From Route 30W exit off I-95:** travel approx. 1.5 miles to Oak Street on left. Travel approx 0.8 miles on Oak St, where it crosses Glen Road and becomes Cliff Road. Go an additional 0.2 miles, turn right onto Westcliff Road.. ◇

# Biography

Dr. Peter Meltzer is the President and Co-founder of Organix Inc. of Woburn, Massachusetts. He is a native of South Africa and received his Bachelor of Science and Ph.D. degrees from the University of Witwatersrand in Johannesburg, South Africa. Upon completion of his doctoral studies he came to the Massachusetts Institute of Technology as a Post-Doctoral Fellow. After a year at MIT he spent five years as a group leader and senior chemist at the Sheehan Institute (SISA). In 1983 he became a Vice-President at H. G. Pars Pharmaceutical Laboratories until he left H.G. Pars to found Organix in 1986. From 1981-1983 Dr. Meltzer was an Associate Editor of *the Nucleus* and from 1984-1985 he was Chair of the Medicinal Chemistry Group of NESACS. He has over 100 publications in the area of organic and medicinal chemistry and more than twenty US patents. ◇

**Correction:** In the September issue of *The Nucleus*, the article entitled, "Two NESACS Members Honored at NERM," should have been credited to Ruth Tanner with photos provided by Martin Isaks. The Editor apologizes for the error. In addition, Julianne Smist (Springfield College) is currently the Associate Secretary of the Connecticut Valley Local Section (not chair of the Green Mountain Section as written) and is chair of the Board of Directors of the Northeast Region of ACS, Inc. ◇

# ABSTRACT

Organix was established in 1986 with the goal of becoming one of the first privately held chemical companies in the US to provide synthetic organic and medicinal chemistry services to industries that utilize organic molecules.

The motivating factors that might drive a chemist to establish an independent chemical facility within a highly regulated and complex business environment are diverse. In the days before Contract Research Chemistry was accepted by the pharmaceutical

industry as a viable alternative, or an addition, to conducting in-house design and synthesis of proprietary organic targets, it was questionable whether such a company could succeed. In particular, it was unusual, at that time, for the pharmaceutical industry to place highly sensitive intellectual property in the hands of a third party. Organix was a pioneer in this arena, and in the ensuing years many other companies evolved to provide similar services.

This presentation will describe the establishment of a small chemical company and the evolution of an idea to

fruition and growth to recognition as one of the premier CROs in organic and medicinal chemistry in the US. Specific hurdles that need to be overcome by small chemical businesses will be discussed and particular challenges to contract chemistry will be presented. Models for Contract Research Organizations that work and those that are less successful will be discussed. A small business is heavily dependent upon the founders, their specific expertise, their personal goals, ambitions and their personalities. The impact of these traits upon a successful chemical enterprise will be presented. ◇

## Northeastern Section of the American Chemical Society

# CONNECTIONS TO CHEMISTRY 2008

The Northeastern Section of the American Chemical Society (NESACS) and the Education Committee of the Northeastern Section invite high school chemistry teachers to a program at **Burlington High School (Burlington, MA) on Thursday, October 16<sup>th</sup>, 3:30 – 8:00 PM**. This program will help connect high school teachers with the numerous education resources that are available from the American Chemical Society. Four simultaneous hands-on workshops will illustrate these resources:

- **Prescribing Success for the Future** with Nicole Clark, Intensive Care Clinical Pharmacist, Hallmark Health System. This workshop demonstrates activities and shares the curricular connections in chemistry (and math) that pave the road to becoming a pharmacist, a career that links the chemical and health sciences in a world of miracle drugs. Participants will practice hands-on lab demonstrations and activities to experience the career chemistry and math connections with which a pharmacist engages on a daily basis. (Workshop A)
- **The Real CSI Lab** with Bill Hebard, Chemist, Massachusetts State Crime Laboratory. Devise an applied chemistry approach through incorporating forensics into the chemistry curriculum. Examine the basic principles of science used in the analysis of forensic evidence: the physics of blood pattern analysis, the chemistry of forensic toxicology and the biology of biological fluid identification. Try your hand at forensic techniques. Solve the crime! (Workshop B)
- **“Play Ball!”** with Patrick Drane, Mechanical Engineer and Assistant Director, Baseball Research Center, University of Massachusetts Lowell. A program on the National Chemistry Week theme, *Having a Ball with Chemist*. Experiment with baseballs, superballs and various types of bats. High speed videos will show how the collisions occur; the chemistry of the materials in these balls and bats will explain why these balls bounce and travel. (Workshop C)
- **Let Your Fingers Do the Walking** with Liana Lamont, Assistant Editor, Journal of Chemical Education, University of Wisconsin-Madison. A computer-based workshop to offer you a hands-on look at the extensive resources available at the ChemEd Nation Science Digital Library. The collection includes articles from the Journal of Chemical Education, the *Chemistry Comes Alive* demonstration videos, and the *JCE Classroom Activities*. (Workshop D)

### Program

3:30 – 4:00 Registration and Refreshments

4:00 – 4:25 Welcome and Overview

4:30 – 6:10 Four Simultaneous 50-Minute Workshops Presented in Each Session:

Session I: 4:25 – 5:15 Workshops A & B & C & D

Session II: 5:20 – 6:10 Workshops A & B & C & D

6:15 – 8:00 Dinner and Address

**Address:** ...*And Now For Something Completely Different*

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Director, Global Science and Technology Outreach at Dow Corning Corporation

**The deadline for registration is Friday, October 10<sup>th</sup>**. The registration fee is \$18.00 and is non-refundable after October 8<sup>th</sup>. Workshop and program-related materials, dinner, a one-year subscription to *ChemMatters*, and a certificate for three hours of Professional Development will be provided to all workshop *participants*.

The detailed program and registration form can be obtained from the NESACS Web site <<http://www.nesacs.org>> under *Connections to Chemistry 2008*.

For additional information, contact Dr. Ruth Tanner, Chair, Education Committee, NESACS: 978/934-3662 or [Ruth\\_Tanner@uml.edu](mailto:Ruth_Tanner@uml.edu)

# NESACS–GDCh German Exchange Program

## *Benefits to Career Decisions, Professional and Social Networking*

*This account was submitted by current Chair, Leland (Lee) Johnson  
(leland.johnson@nsycc.org, Novartis-NIBR)*

In the past few months, I have asked participants on both sides of the Atlantic to pass along their experiences with the German Exchange Program. When the Steering Committee for the German Exchange was formed, Michael Strem (Strem Chemicals, Inc.) had certain expectations for the program. When I asked, he said that the “expectations were built around the internationalization of our [chemistry] profession that had been going on for a while and...was not going to decrease. The program would [provide] the students an opportunity to present their work to an international audience, as well as to immerse themselves both professionally and socially, albeit for a short time, in a different culture. In case they wanted to avail themselves of post-graduate opportunities in foreign countries, this experience, and the contacts made, could be of some help.” Planning for the ninth exchange between NESACS/NSYCC and the GDCh/JCF, it seemed appropriate to check with several participants in order to discover the effects that the program has had on their individual (and joint) career choices. As an undergraduate or graduate student in chemistry, one is very likely to find at least one of these outcomes quite appealing.

Hanns Martin Kaiser (University of Rostock), a primary organizer of the Rostock-based 2008 exchange shared his thoughts, beginning with his recollections from his exchange to Boston last year, and continuing to the present. “In August 2007, I had the great opportunity to take part in the Exchange Program of the Northeastern Section of the American Chemical Society and the Younger Chemist Committee of the German Chemical Society. As a member in a group of 14 German graduate students I stayed in Boston for a week-long program during the ACS National

Meeting. The nicely organized program allowed us to attend the superb conference program amongst thousands of fellow chemists, and to visit Novartis and Harvard University in Cambridge and to enjoy a trip to Cape Cod in an intimate group of fewer than twenty-five.”

Hanns Martin continued: “In addition to the interesting program, we were able to develop contacts with a group of graduate students from the Boston area. With a lot of intense and inspiring discussions, I made a lot of new friends at Boston. Subsequent to the exchange program, I did an intra-doctoral research stint for several months in Cambridge and was able to meet YCC members during that time. After my return to Germany, it has been a great honor to welcome a dele-

gation of American graduate students from the NESACS during the exchange program 2008 to the 10<sup>th</sup> *Fruehjahrssymposium* at my university in Rostock, Germany.”

“In all, it has been a great pleasure for me to experience this intercultural exchange to Boston and back in Rostock. Just over a year after coming to Boston, I have submitted my Ph.D. thesis and have planned my future career. In this regard I decided to perform a career change into a very communicative, intercultural and challenging environment. After successful completion of my job search, I decided to start in January as a consultant with a leading global management consulting firm. I am looking forward to supporting international project teams in order

*continued on page 8*

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## NESACS-GDCh

*Continued from page 7*

to tackle complex problems together with colleagues from very different backgrounds and countries, and I believe that my experiences with the JCF and NESACS-GDCh exchange have provided an excellent opportunity to network and learn from the challenges and successes of organizing an event like the *Fruehjahrssymposium*. I am sure that I will meet some of my friends from Boston on a professional basis again in the future.”

One of the NESACS/NSYCC participants in the 2008 exchange, Lynell Skewis (Boston University), described her experiences as “an exciting and exhausting week of chemistry, networking, and socializing. Through this experience, my personal network was expanded by forming friendships with our German hosts and getting to know the Boston area participants, many of whom I wouldn’t have met otherwise. The primary impact the exchange had on my professional network and career came as I learned more about the NSYCC, whose members play an

important role in organizing and implement the German exchange program goals. As a result, I was elected to the position of Career Chair for the NSYCC for the coming year. In this role and through assisting Lee Johnson with the two most recent chemistry student career fairs, I have had the opportunity to meet representatives from the chemical industry around Boston, as well as career services advisers affiliated with the ACS. This network will continue to grow as I organize the 2009 NSCCF, and I have the German exchange program to thank for my introduction to the NSYCC and my growing network.”

Alex Taylor, currently a post-doc (MIT), participated in the German exchange to Berlin in the spring of 2005. He recalls his experiences in this way. “The German exchange to Berlin was the starting point for my involvement with the NSYCC. Through the exchange, I have met and become acquainted with the past and current leaders of the YCC, as well as members of the exchange’s steering committee, such as Mike Strem, Ruth Tanner, and Mort Hoffman. Having a

number of contacts around Boston at different stages of their careers has given me insight into career possibilities and been useful when contacting different groups or people. Being involved with the YCC has also been a lot of fun. Last summer, I helped plan for and host the German delegation’s tour of the Boston area, which was near the end of their week-long visit. I have great memories of visiting a biotech on Cape Cod, eating lobster at a clam bake, and dancing until late in the night with our German hosts and symposium attendees.” Alex keeps in touch with many of the exchange participants from 2005 in Berlin and from the exchange to Boston last year, and, as he mentioned, his professional and personal network has expanded greatly since his participation.

Tom Grossmann (Humboldt University), a long-time JCF member and exchange participant, recounts his experiences from the German side of the exchange. “I have been a member of the Jungchemikerforum (JCF, Younger Chemists Committee) since 2000. At that time I was undergraduate student at the Chemistry Department of the Humboldt University in Berlin, Germany. Within the JCF I met students sharing similar interests. We organized various events bringing together young chemists from several countries. At one of these meetings, the 2005 Spring Symposium in Berlin, I got to know a group of enthusiastic and interested US students who attended the exchange program between NESACS and the German Chemical Society (GDCh). I liked the idea of a permanent exchange program between young chemists from Germany and the US. I was pleased to meet another group of students one year later at the Spring Symposium in Konstanz. In 2007, I had the opportunity to participate in this exchange program and joined a group of German students visiting Boston and attending the ACS fall meeting. The trip to Boston was a great experience. We received a very warm welcome and spent a lot of time with our friends from the US.”

*continued on page 23*



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# Report from NERM 2008

By Morton Z. Hoffman

NESACS Representative to the Board of Directors, Northeast Region of the ACS, Inc.

More than 600 chemists, including 225 undergraduate and graduate students, gathered on the west coast of New England for the 35<sup>th</sup> Northeast Regional ACS Meeting (NERM 2008) in Burlington, Vermont, on June 29-July 2, 2008; <<http://www.nerm2008.org>>. Hosted by the Green Mountain Local Section and cosponsored by the Chemical Institute of Canada, the meeting had “*Chemistry Without Borders*” as its theme. With many other industrial, academic, and international sponsors, including ten ACS divisions and the Royal Society of Chemistry, the meeting offered nearly 450 oral and poster presentations and an exhibition with 18 vendors and two non-profit groups. Among the attendees were Bruce Bursten (ACS President) and Anne O’Brien (ACS District I Director).

The meeting featured invited and contributing speakers across a wide range of topical symposia, including green chemistry, polymer chemistry,

chemical biology, environmental chemistry, organic synthesis, layered materials, energy, industrial chemistry and innovation, inorganic chemistry, physical chemistry, analytical chemistry, medicinal chemistry, biochemistry, modeling and computer simulation, and chemical education. There were many workshops and programs for high school teachers, students, and chemistry enthusiasts. Tours to IBM’s Burlington Design Center and Ben & Jerry’s ice cream factory, and an evening of standup comedy with chemical engineering professor Peter Ludovice (Georgia Tech) and professional performer Rusty DeWees (“The Logger”) were part of the social program.

The meeting ended with a conference cruise and award dinner aboard the *Spirit of Ethan Allen III* on Lake Champlain. The weather cooperated, producing a glorious early summer sunset. The following awards were

presented:

- The Green Mountain Local Section “Salute to Excellence” Award to Omya, Inc., for its contributions to chemistry and science education and outreach in the local community;
- The ACS Division of Chemical Education Northeast Region Award for Excellence in High School Teaching to Steve Lantos (Brookline (MA) High School) for his creative, effective, and inspiring connections to his students;
- The 2007 E. Ann Nalley Northeast Region Award for Volunteer Service to the ACS to Deborah Janes and Timothy Wilson (Eastman Kodak Company, Rochester, NY) for their involvement in science education outreach, and the 2008 Award to Christine Jaworek-Lopes (Emmanuel College, Boston, MA) for her untiring work as coordinator

*continued on page 24*

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# 2008 Henry A. Hill Award

The 2008 Henry A. Hill award will be presented to Dr. Michael Singer. The Hill award is presented annually to a member of the Northeastern Section of ACS for outstanding service to the section and to the profession of chemistry. Dr. Singer is currently R&D Manager for New Products/Special Products at Sigma-Aldrich (Natick). Dr. Singer obtained his B.S. degree from the State University of New York at Stony Brook (1986), his M.S. degree from Brandeis University (1988), his Ph.D. from Brandeis University (1993), and performed post-doctoral research at Organix Inc. (1991-1994). Dr. Singer's professional experience also includes the following: Group Leader, Drug Discovery Research and Development, Sigma-Aldrich (Natick) (2001-2007); Group Leader, Automated Combinatorial Synthesis, ArQule Inc. (1996-2001); Senior Scientist, ArQule Inc. (1994-1996); Dr Singer has served on the Board of Directors of the Northeastern Section of ACS (NESACS) (1993-present) where he has held the following positions: Secretary-NESACS (1998-present); Councilor-NESACS (1996-2001, 2005-present); Alternate Councilor – NESACS (2002-2004); Board of Publications (1996-1997); Summerthing (2007-2008); and with the Medicinal Chemistry Group (MCG) (1991-2000); MCG Treasurer (1992-1993), MCG Program Chair (1994); MCG Chair (1995-1996). In addition to his service in NESACS, Dr. Singer has also served on the ACS Joint Board-Council Committee on Chemical Abstracts Service as Associate member (2004) and Member (2005-2007), and as ACS Local Section Activities Committee Associate Member (2007) and Member (2008-2009). The 2008 Henry A. Hill award will be presented at the October meeting of NESACS. ◇

# 2008 NESACS Golf Tournament

By Amy Tapper



*Geoff Tapper, Amy Tapper, Bridge Hunter, Harry Mandeville- Amy and Harry, Co-Chairs*

The fourth annual NESACS golf tournament was held on June 25, 2008 at Butternut Farm golf course in Stow, MA ([www.butternutfarm.com](http://www.butternutfarm.com)). It was a perfect day for golf, sunny with a moderate temperature. This year a total of 74 golfers participated in a shotgun scramble. The scramble format allows players of all levels to participate. This annual event is a great venue for networking and players came from as far as South Carolina and Wisconsin to participate. The tournament began at 1 PM and was followed by a BBQ dinner and awards ceremony. Please visit the NESACS website [www.nesacs.org](http://www.nesacs.org) to view photos of the players.



*First-place team - Paul Delfino, Jim Bannister, Stu Needleman, Jeff Wilson*

First, second, and third place prizes (Butternut Farm pro shop gift certificates) were awarded to the teams with the lowest overall scores (\$75/player, \$50/player, and \$25/player respectively). The third-place team with a score of 9 under par was Mark DaFonseca, Aptuit; Darrin Sloan, CombinatoRx; Mahesh Padval, CombinatoRx and Ben Andrusaitis. The second-place team with a score of 10

under par was Dave Rogers, Genzyme; Steve Trahan, Genzyme; Gary Kelley, Raytheon; and Anthony Tavalone, MA State Highway Department. The first-place team, winning their second consecutive NESACS tournament, with a score of 12 under par was Stu Needleman, Aptuit; Jeff Wilson, Aptuit; Jim Bannister, Aptuit; and Paul Delfino, Delfino Marketing.

In addition to the first-, second-, and third-place team prizes, prizes (\$50 Butternut Farm pro shop gift certificates) were given for the longest drive and closest to the pin. The longest drive was on a par 5 hole and the winner had the longest drive off the tee that landed in the fairway. The closest to the pin was on a par 3 hole and the winner was the person that landed his or her drive closest to the pin on the green. This year the longest drive for women was won by Cassandra Celatka from Genzyme and the longest drive for men was won by Anthony Tavalone from the MA State Highway Department. Anthony was also the male winner of closest to the pin. The female winner of the closest to the pin contest was Elyse Bourque of Genzyme.

Most importantly, we would like to acknowledge all of the sponsors of this event: **Lyophilization Services of New England (LSNE), IRIX, Aptuit, Shasun Pharma Solutions, Cambridge Major Laboratories, SAFC Pharma, Vertex, and PCI Synthesis.** Industrial contributions to the Northeastern Section are what enable the Section to be one of the most active Sections of the American Chemical Society. To view the products and services that are available from our sponsors please visit the NESACS website link (<http://www.nesacs.org/sponsors.html>).

We look forward to another successful tournament in 2009. Information will be posted on the NESACS website in early Spring 2009. Please

*continued on page 24*

## Two-Day Short Course: LABORATORY HEALTH AND SAFETY

Sponsored by the NESACS Committee on Continuing Education.

Designed to Improve the Skills and Marketability of Practicing B.S., M.S., and Ph.D. chemists,  
at a registration fee about half of that charged at National ACS Meetings.

**DATES and TIME:** **Thursday, Nov. 20, 2008; 8:00 a.m. – 5:00 p.m.**  
**and Friday, Nov. 21, 2008; 8:30 a.m. – 5:00 p.m.**

**PLACE:** Room 340, Eagan Center, Northeastern University, 360 Huntington Ave., Boston, MA

Laboratory Safety has become a concern of ever increasing importance, with many laboratory operations becoming substantially altered from traditional practices due to safety considerations. Yet few chemistry practitioners have had any formal training in this area. This Short Course, which has been offered successfully at numerous professional meetings since 1985, is being made available to the Northeastern Section at a tuition fee greatly reduced from that normally charged at National and Regional Meetings.

### PROGRAM AGENDA:

Scope of the Problem; Accidents; Legal Aspects; OSHA Lab Standard; Fire Control; Labeling; Biological and Animal Hazards; Handling Glassware; Eye and Face Protection; Planning for Emergencies; Handling Chemical Reagents; Ventilation; Electrical Safety; Storage of Chemicals; Disposal of Chemicals, Safety Equipment Display; Needs Assessment; Employee/Student Involvement; Safety Program Planning; Questions and Answers.

**INSTRUCTOR:** Dr. James A. Kaufman, a member of the Northeastern Section and founder and President of "The Laboratory Safety Workshop," is widely recognized as one of the nation's leading authorities on safety in science laboratories. The Committee on Continuing Education feels fortunate to be able to present this training program by a pre-eminent authority from this Section.

### PRE-REGISTRATION REQUIRED – Registration Fees:

ACS Members if **received** before Nov. 6..... \$550.00; if **received** after Nov. 6 .....\$645.00

Non-ACS Members if **received** before Nov. 6..... \$650.00; if **received** after Nov. 6 .....\$745.00

There will be a limited number of scholarships for unemployed ACS Members on a space-available basis.

Full-time Students will be admitted on a space-available basis at the following reduced fees:

Graduate students registering before Nov. 6 ..... \$225.00; after Nov. 6.....\$325.00

Undergraduate Students registering before Nov. 6 ...\$125.00; after Nov. 6.....\$225.00

Parking Fee: about \$15.00/day

University cafeterias will be available for lunches.

For further information contact: Marilou Cashman, NESACS Office,

e-mail: mcash0953@aol.com phone: (508) 653-6329; or toll free: (800) 872-2054

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### Short Course Registration form: *Laboratory Health and Safety, Nov. 20-21, 2008*

Name: \_\_\_\_\_ Business Affiliation: \_\_\_\_\_

Mailing \_\_\_\_\_ Telephone: \_\_\_\_\_  
Address

(Circle: Home or Work) \_\_\_\_\_ E-mail: \_\_\_\_\_

Mail with remittance to: Prof. Alfred Viola, Chair  
Committee on Continuing Education  
NESACS  
23 Cottage Street  
Natick, MA 01760

Please make checks payable to NESACS  
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purchase orders.)



# National Chemistry Week Events

Celebrating

Having a Ball with Chemistry – October 18 -25, 2008

## October 18, 2008 – Museum of Science Boston

- *Phyllis A. Brauner Memorial Lecture by Dr. Bassam Shakhashiri*

Dr. Bassam Shakhashiri is a Professor of Chemistry at the University of Wisconsin-Madison and is the William T. Evjue Distinguished Chair for the Wisconsin Idea. Professor Shakhashiri has captivated audiences with his scientific demonstrations at a variety of locations including Boston's Museum of Science, the National Academy of Sciences and the Smithsonian's National Air and Space Museum in Washington.

Taking place in Cahners Theatre (2<sup>nd</sup> floor, Blue Wing) at 1:00 pm and 4:00 pm.

\* Admission to the museum is required for the 1:00 pm show. Free tickets to Dr. Shakhashiri's show will be available on a first come, first serve basis.

\* Admission to the museum is NOT required for the 4:00 pm show. Tickets are available via advance reservation. To reserve tickets, please contact Marilou Cashman either via email [mcash0953@aol.com](mailto:mcash0953@aol.com) (preferred) or by phone 1-800-872-2054 before October 15, 2008. Tickets will be available for pick-up in the lobby of the museum at the ACS table.

- *Kicking off National Chemistry Week 2008 festivities*

Join us in a variety of hands-on activities related to the yearly theme. Taking place from 1:00 pm - 5:00 pm on October 18, 2008 in the lower level of the Blue Wing.

## October 25, 2008 – Boston Children's Museum

From 10:30 am – 4 pm, NCW volunteers will be on-hand throughout the museum to perform demonstrations and assist in hands-on activities related to the yearly theme.

## September 1 – October 15, 2008

K-12 students participate in the **NCW poster competition**. Visit [www.nesacs.org](http://www.nesacs.org) and [http://portal.acs.org/portal/acs/corg/content?\\_nfpb=true&\\_pageLabel=PP\\_ARTICLEMAIN&node\\_id=1055&use\\_sec=false](http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_ARTICLEMAIN&node_id=1055&use_sec=false) for more information.

## October 1 – 31, 2008

Grades 1-12 may participate in the **puzzle contest**. See [www.nesacs.org](http://www.nesacs.org) or the October 2008 issue of the Nucleus for the puzzles and contest information.



# National Chemistry Week Puzzle Contests

by Chris Morse

In honor of the "Having a Ball" theme of chemistry and sports, these two puzzles contain a little of both. To qualify to enter, you must be in a grade no higher than 12<sup>th</sup>. Follow the instructions for either puzzle, and e-mail your contest entry to [NCWpuzzles@yahoo.com](mailto:NCWpuzzles@yahoo.com). Make sure to include your name, address, school, science teacher and grade. Entries will be selected and results will be posted later. A winner for each puzzle will be randomly selected from all properly solved entries. You may enter both contests if you wish. Entries must be received by October 31, 2008.

Sports Word Square: The answer to each of the randomly-ordered clues below is a six-letter word hidden in one of the rows or columns of the grid. Cross off the letters used in those twelve answers and the letter left in each box, reading left-to-right, top-to-bottom, will spell out the answer message.

	1	2	3	4	5	6
1	A	H	L	L	E	S
2	H D	E N	T O	M S	P Y	M T
3	P	A	E	Q	E	E
4	P I	O I	D C	M D	I L	K D
5	S	C	C	U	S	I
6	S A	O L	N M	U C	G E	R T
7	C	K	L	O	S	I
8	P H	E O	N L	A D	E T	A I
9	X	E	R	A	T	E
10	K U	G A	R I	S A	M O	S N
11	B	Y	G	H	L	G
12	S O	F O	S X	I O	N N	G D

Different versions of this sport use glide wax or grip wax for interaction with the snow

Its varieties include Shotokan and Kyokushin

Protective headgear for cyclists often lined with polystyrene foam

Sport played by the New England Revolution

Sport that Cassius Clay won the Gold Medal for in 1960

The ball used in Jai Alai with rubber on the inside and goatskin cover

The double yellow ball for this sport is made from rubber that makes it extra super slow

This avian shooting target is just a saucer made of chalk and pitch

This sport uses a 3-inch diameter puck made of vulcanized rubber

This sport uses hollow rubber balls coated in felt

This track and field object, made from metal, rubber and/or wood, is 220 mm in diameter

Wooden instrument used to propel a canoe

## Puzzle Contest *Continued from page 13*

Element Sudoku: Below is a sudoku grid that, instead of having the numbers 1 through 9, has 9 different chemical element symbols in it. The same rules apply: there can be only one of each of the 9 elements in each 3x3 box, row, and column. The first thing you need to do is figure out which of those 9 elements is represented by each of the 28 clues below and fill them into the grid. Then, solve the element sudoku. Lastly, the final answer to the contest is the phrase spelled out along the diagonal from upper left to lower right.

				1	2	3	4	
			5				6	
	7	8		9				
		10			11		12	
								13
			14					
	15						17	18
			19		20	21		
			22				23	
								24
			25		26	27	28	

1. Element with an allotrope called ozone
2. Element named after the 1921 Nobel Laureate in Physics
3. Metallic element mined from the mineral bauxite
4. Metallic element used with cadmium in rechargeable batteries
5. Element No. 13
6. Element that is spelled with a "ph" in Britain or an "f" in the U.S.
7. Element No. 7
8. Metal used for surgical implants, golf clubs and bicycle frames
9. Element discovered by Berzelius in 1817
10. Element No. 28
11. Element named for Greek mythological giants
12. Element No. 34
13. Most abundant element in the Earth's atmosphere
14. Metal produced by the Hall-Héroult process
15. Element that is extracted via the Frasch process
16. Most abundant metallic element in the Earth's crust
17. Element No. 22
18. Most abundant element in the Earth's crust
19. Element named for a Greek goddess of the moon
20. Element that is spelled with an additional "i" in Britain
21. Element that is purified by the Mond process
22. The common name for this element is brimstone
23. Element No. 99
24. Second most common element in a modern U.S. dime
25. Element No. 8
26. The liquid form of this element boils at 77 K
27. Element No. 16
28. Element named for the Greek word for rainbow

# Education Night Awards

Presented at Northeastern University, Boston, Massachusetts, Thursday, May 8, 2008

## HIGH SCHOOL AWARDS

### FIFTIETH ANNUAL AVERY A. ASHDOWN HIGH SCHOOL EXAMINATION CONTEST

#### First Place - The Simmons College Award

Simon H. Ye                      Andover HS                      Betty Iannucci

#### Second Place

Adhvait M. Shah                      Burlington HS                      Peter Nassiff

#### Third Place

Isaac O. Bleicher                      Newton North HS                      Peter Hamel

#### Fourth Place (tie)

Noah Arbesfeld                      Lexington HS                      Janice Compton

Christopher Teng                      Lexington HS                      Jeff Shorter

Joshua R. Infantine                      Phillips Academy                      Yuko Hori

Tully Cheng                      Wayland HS                      Jay Chandler

#### Honorable Mention - First Year

Josh Leung                      Lexington HS                      Janice Compton

Kyumin Lee                      Lexington HS                      Janice Compton

Kenneth E. Tharp                      Phillips Academy                      Brian Faulk

David Storch                      Arlington HS                      John Jannetti

Ramanjit Singh                      Arlington HS                      John Jannetti

Randy X. Li                      Phillips Academy                      David Stern

#### Honorable Mention - Second Year

Rebecca Wang                      Acton-Boxborough                      Carol Murphree

Alexander J. Woolf                      Newton North HS                      Peter Hamel

Greg Silva                      Acton-Boxborough                      Carol Murphree

Lorcan McGonigle                      Groton School                      Sandra Kelly

Ian F. Tenney                      Commonwealth School                      Rebecca Jackman

Paul O'Neil                      Concord-Carlisle                      Rebecca Lucier

## AULA LAUDIS SOCIETY

Paul Cernota                      Phillips Academy - Andover, MA

George Goodfellow                      Retired - New Bedford HS (Currently at Scituate HS, RI)

Faith Hughes                      Barnstable HS - Hyannis, MA

Valerie Lechtanski                      Hopkinton HS - Hopkinton, MA

## Project SEED

Stonehill College Mentor: Dr. Louis Liotta

Sabianca Delva                      Randolph High School

Nurbaita Faris                      Randolph High School

## COLLEGE AND UNIVERSITY AWARDS

### THE PHILIP L. LEVINS MEMORIAL PRIZE

University of Massachusetts Dartmouth

Chengjun Wang                      Yuegang Zuo, Thesis Advisor

### 2008 UNDERGRADUATE RESEARCH SCHOLARS JAMES FLACK NORRIS

And

### THEODORE WILLIAM RICHARDS SCHOLARS

Harvard College

Alexander Gitlin                      Prof. Stuart L. Schreiber, Advisor

*Molecular Regulation and Modulation of Beta Cell Identity and Function*

Stonehill College

Devon Heath                      Dr. Leon Tilley, Advisor

*Synthesis of 1,1,1-trifluoro-4-trimethylsilyl-2-butanone-3,3-d2: Beta-deuterium Isotope Effects of Electron Deficient Gamma-Silyl Cations.*

Tufts University

Derek Kong                      Dr. John Kyriakis, Advisor

*Understanding P8 and PELP: Stress Induced Transcriptional Coregulators of Matrix Metalloprotease-9 in Heart Disease*

Wheaton College

Samuel Beal                      Prof. Matthew Evans, Advisor

*Chemical weathering in the hydrological system of the Greenland Ice Shelf*

### NESACS UNDERGRADUATE GRANTS-IN-AID

Keene State College

Kevin Robbins.                      Dr. Colin Abernethy, Advisor

*New Soft Scorpionate Complexes of Vanadium*

Dartmouth College

Jeffrey Garber                      Dr. Robert B. Grubbs, Advisor

*Amphiphilic Block Copolymer Precursors to Cobalt Polymer Hybrids*

University of Massachusetts Dartmouth

Jonathan Doran                      Dr. Donald Boerth, Advisor

*Nucleophilic Displacement Reactions*

### DR. PHYLLIS A BRAUNER MEMORIAL BOOK AWARD

Dartmouth College

Jeffrey Garber                      Dr. Robert B. Grubbs, Advisor

*Amphiphilic Block Copolymer Precursors to Cobalt Polymer Hybrids*



Simon Ye (Andover (MA) High School (at left), winner of The Simmons College Award as first place finisher in the Avery Ashdown High School Examination Contest, congratulated by Michael Berger (Simmons College) (Photo by Morton Z. Hoffman)



Chengjun Wang (University of Massachusetts Dartmouth) (at left), receiving the Philip L. Levins Memorial Prize from Michael Hearn (Wellesley College) with Yuegang Zao, his thesis advisor (at right). (Photo by Morton Z. Hoffman)

# Annual Nucleus Buyers Guide 2008

1. How to use this Guide. First look at the PRODUCTS & SERVICES DIRECTORY, which is on page 21. Find the Category in which you are interested. Categories are shown in bold letters. Then, under the Category look for the specialized Product/ Service area that you want and copy the companies that are shown there.

Then go to the Company Directory (on page 16) and locate the companies that provide the Product/Services that interest you. Complete contact information is available for each company listed in the Buyers Guide.

2. This Guide is distributed to the 7,500 ACS members in the greater Massachusetts area. It has been estimated that this audience purchases \$350,000,000 of products and services each year.

If you wish to be in next year's Guide or are interested in other American Chemical Society advertising opportunities please contact Vince Gale, 781-837-0424 or vincegale@mboseervices.net.

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fred.deckert@toxikon.com  
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# PRODUCTS & SERVICES DIRECTORY

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### **4-Molecular weight analyzers**

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### **6A-Particle size**

Brookhaven Instruments

### **8-Polarimeters**

Rudolph Instruments

### **9-Refractometers**

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### **11-Syringes**

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### **12-Viscometers**

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Brookfield Engineering Lab Inc  
Cargille Laboratories  
Polymer Standards Serv,USA Inc

### **12A-Water test kits**

Taylor Technologies Inc.

### **12B-Weighing balances & scales**

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### **12C-HPLC**

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### **12D-Mass Spectrometry**

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XenoBiotic Laboratories, Inc.

### **12E-Radio chromatography**

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### **12F-TLC**

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### **13A-Biology/toxicology analysis**

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### **14-Biomedical equipment**

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Bruker Daltonics

### **15-Biomedical polymers**

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### **16-Cell disruption**

Branson Ultrasonics Corp

### **17-Microbiology**

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Bruker Daltonics

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### **19-Bioanalytical service LC/MS**

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### **20-Certificates of analysis**

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### **21A-Elemental Microanalysis**

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Complete Analysis Laboratories  
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Schwarzkopf Microanalytical

### **23-Testing laboratory**

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Anamet Laboratories, Inc.  
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CreaGen  
Impact Analytical, Div. of M.M.I  
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pION Inc.  
Polymer Standards Serv,USA Inc  
Schwarzkopf Microanalytical  
Strategic Diagnostics

### **24-Trace element analysis**

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Chemir Analytical Services  
Columbia Analytical Services  
Complete Analysis Laboratories  
Northern Analytical Laboratory  
Rudolph Instruments  
VHG Labs

### **25-Thermal analysis**

Chemir Analytical Services

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### **25A-Amino acids**

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### **27-Chiral catalysts**

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### **27A-Chiral & custom chemicals**

PolyOrg Inc.

### **28-Custom synthesis**

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Organomed Corporation  
PolyOrg Inc.  
Seres Laboratories Inc.  
TCI America

### **29-Detergents**

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Cambridge Isotope Laboratories

### **33-Inorganic chemicals**

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### **34-Intermediates**

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PolyOrg Inc.

### **35-Isotopes**

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### **35B-Organic Compounds**

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PolyOrg Inc.  
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### **35A-Pharmaceutical intermediates**

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Organix Inc.  
PolyOrg Inc.  
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### **37-Reagents**

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Matreya LLC  
Richman Chemical, Inc.  
TCI America  
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## 39-Solutions, standard

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High-Purity Standards

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### 41-Accessories & supplies

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### 42-Columns, prepacked

Polymer Standards Serv,USA Inc  
Restek Corporation

### 42A-Chromatography

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Gentech Scientific, Inc.  
GOW-MAC Instrument Co.  
Restek Corporation  
Sorbent Technologies, Inc.

### 43-Gas

GOW-MAC Instrument Co.

### 44-HPLC columns

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Restek Corporation  
TCI America  
Waters Corporation

### 46-Liquid

Bruker Daltonics  
Polymer Standards Serv,USA Inc  
Waters Corporation

## COATINGS

### 50-Contract research

Chemir Analytical Services

## COMPUTER APPLICATIONS

### 56-Software

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Bio-Rad Labs, Informatics Div  
Molecular Knowledge Systems  
Polymer Standards Serv,USA Inc

## CONSULTING, MANAGEMENT

### 57A-Executive Search

On Assignment Lab Support

### 59-Patents

Arendt Associates IP Group  
Banner & Witcoff, Ltd.

### 60-Research

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### 63-Biomedical

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### 64-Chemical Process

The Catalyst Group Resource

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### 65A-Contract testing laboratory

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Chemir Analytical Services  
Columbia Analytical Services  
DuPont Analytical Solutions  
Polymer Standards Serv,USA Inc

### 66-Engineering

Castagna Consulting Group, LLC  
ICF International

### 68-Forensic analyses

Cargille Laboratories

### 69-Infrared analyses

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### 72-NMR analysis

Chemir Analytical Services

### 74B-Pharmaceutical analysis

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Complete Analysis Laboratories  
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ValQual Intl.  
XenoBiotic Laboratories, Inc.

### 75-Polymers

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Polymer Processing Institute  
Polymer Standards Serv,USA Inc

### 76-Product formulation

Chemir Analytical Services  
pION Inc.

### 77-R & D

Complete Analysis Laboratories  
pION Inc.  
XenoBiotic Laboratories, Inc.  
YourEncore, Inc.

### 79-Safety

Fisher Global Chemical

### 80-Spectroscopy

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Complete Analysis Laboratories

### 80B-Testing Laboratory

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Case Consulting Labs., Inc.  
Chemir Analytical Services  
Columbia Analytical Services  
Complete Analysis Laboratories  
Elemental Analysis Corp  
Laboratory Compliance Services  
Matech Associates  
Polymer Standards Serv,USA Inc  
ValQual Intl.

### 81-UV analysis

Complete Analysis Laboratories  
pION Inc.

## DETECTORS

### 84A-Discharge ionization

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### 85-Flame ionization

GOW-MAC Instrument Co.

### 86-Gas leak

GOW-MAC Instrument Co.

### 87A-Thermal conductivity

GOW-MAC Instrument Co.

## ELECTRON MICROSCOPY

### 89-Electron Microscopy

EDAX Inc.

## ENVIRONMENTAL ANALYSIS

### 90-Environmental analysis

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Complete Analysis Laboratories  
Siemens Water Technologies

## GENERAL EQUIPMENT

### 93-AA lamps

Hellma Cells

### 95-Autoclaves

Consolidated Stills&Sterilizer

### 96-Baths

Thermo Fisher Scientific

### 97-Blenders, mixers, stirrers

Glen Mills Inc.

### 100-Centrifuges

Eastern Scientific Co.

### 104-Crushers & grinders

Impandex, Inc.

### 105A-Deuterium Lamps

Hellma Cells

### 107A-Ductless fume hoods

Flow Sciences, Inc.

### 110-Filters

Avery Filter Co.  
Eastern Scientific Co.

### 112-Freeze dryers

Eastern Scientific Co.

### 114-General laboratory

#### equipment

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American Instrument  
Cargille Laboratories  
Eastern Scientific Co.  
Glas-Col  
KNF Neuberger  
Scientific Asset Management, L  
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### 115-Germicidal lamps

Hellma Cells

### 116-Glassware

G. Finkenbeiner Inc.  
Quartz Plus Inc.  
Wilmad/Lab Glass

### 119A-Labware

Cargille Laboratories

### 120A-Light sources

Hellma Cells

### 122-PID lamps

Hellma Cells

### 128-Process controls

United Electric Controls Co.

### 129-Pumps

Eastern Scientific Co.  
KNF Neuberger

### 133-Spectrophotometer cells

Hellma Cells  
International Crystal Labs  
New Era Enterprises, Inc.

### 134-Tungsten halogen lamps

Hellma Cells

### 135A-UV-visible lamps

Hellma Cells

### 137-Vacuum equipment

KNF Neuberger  
Mass Vac, Inc.

### 138-Valves

Clark Solutions

## LASER SYSTEMS

### 143-Laser systems

CeramOptec Industries Inc.

## MICROSCOPES & SERVICES

### 144-Microscope accessories

Cargille Laboratories

## ORGANIC SYNTHESIS

### 146-Organic synthesis

IQsynthesis  
Kopella Analytical Services  
Organix Inc.  
PCI Synthesis  
PolyOrg Inc.  
Prime Organics

## POLLUTION CONTROL

### 148-Instruments

Rudolph Instruments

### 149-Standards

Cambridge Isotope Laboratories

### 150-Tests

Columbia Analytical Services

## QUALITY CONTROL

### 151-Quality control

ValQual Intl.

## SAFETY

### 156-Equipment

Smiths Detection-Danbury

## DOCUMENTATION

### 158-Custom lab books

Scientific Bindery

### 159-Notebooks and stockbooks

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# PRODUCTS & SERVICES DIRECTORY

**160-Production control books**  
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**161-Quality control books**  
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**167-Fluorescence**  
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**168-Gratings**  
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**171-IR & UV cells**  
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**172-Mass**  
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International Equip Trading  
Waters Corporation

**174-Raman**  
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JASCO

**176-UV visible**  
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pION Inc.

## EDUCATION & PUBLICATIONS

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**179B-Training & education**  
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Chromatography Forum Del Val  
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Northeastern University

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Polymer Standards Serv, USA Inc  
ValQual Intl.

## SUPPLIES

**181-Solvents & thinners**  
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*To be in next year's Guide,  
contact Vince Gale at:*

*phone: 781-837-0424,*

*e-mail:*

*cust-svc@mboseervices.net*

## NESACS-GDCh

*Continued from page 8*

Tom described additional benefits: "Being a Ph.D. student at that time, I was in the process of looking for groups suitable for postdoctoral research. The lab I was most interested in was the one of Professor Verdine at Harvard University. In addition to the presenting scientific research at the ACS meeting, I had the chance to visit Harvard and meet Professor Verdine in Cambridge. Our first face-to-face meeting paved the way for postdoctoral work in his lab, which I plan to begin in early 2009. Besides the direct benefit of my postdoctoral plans from the exchange program, I value the experiences and the people I met. I hope this program between the NESACS and the GDCh will continue into the future, giving many students from both sides of the Atlantic an opportunity to get to know each other."

As the current chair of the NSYCC, I can comment on a few of the positive outcomes from my participation in the 2006 exchange to Konstanz. My personal network of colleagues within the international chemistry community expanded greatly. I have kept in touch with several of the organizers and attendees from the conference. There were a couple of guys named Tom with whom I have kept in contact over the years. Thomas Haas was one of the Konstanz organizers, and he and I developed a friendship over the week. He knows that he has a friend and colleague in Boston. As the *Frueh-*

*jahrssymposium* is an international conference, there are others whom I call friends from countries other than Germany: Nuno (Belgium), Bartek (Poland), and Martina (Czech Rep.) invited me into their lunch group in Konstanz, and we have kept in touch since. The other Tom, Tom Grossmann (*vide supra*) and I have kept in touch, and I am sure that when he arrives in the Boston area, he will be more than willing to explain the many positive effects for the applicants to the program. During the 2006 exchange, I also met Helke Doering and Jens Bref-

fke; both of these folks (and many others) became close friends during their time here in August 2007.

The most prominent effect was the development of my professional network. This occurred as a direct result of the exchange. In 2007, I became involved as the Career Chair for the NSYCC and President of the Boston University YCC. Over the course of two years, I met and introduced myself to scores of people in industry from across the section and throughout the region.

*continued on page 24*



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## Report from NERM

Continued from page 9

of National Chemistry Week activities for the Northeastern Local Section.

- The Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences to Todd Pagan (National Technical Institute for the Deaf and the Rochester (NY) Institute of Technology) for his work in educating hearing-impaired students toward careers in the chemical sciences.
- The ACS Regional Industrial Innovation Award to Dana Bookbinder, Ming-Jun Li, and Pushkar Tandon (Corning, Inc., Corning, NY) for their work in producing air-glass composite optical fibers.
- The ACS Northeast Region Award for Achievements in the Chemical Sciences to Abraham Clearfield (Texas A&M University) for his work with layered phosphonates.

The Board of Directors of the Northeast Region of the ACS, Inc., held its annual meeting on July 2; it unanimously voted to commend Willem Leenstra (University of Vermont; Green Mountain Local Section), the General Chair of NERM 2008, for leading the organizing committee of this very successful NERM. The Board re-elected Christopher Masi (Westfield State College; Central Massachusetts Local Section) and Wayne Jones (SUNY Binghamton; Binghamton Local Section) to two-year terms (2009-10) as Secretary and Treasurer, respectively; continuing as Chair and Vice Chair of the Board are Julianne Smist (Springfield College; Connecticut Valley Local Section) and Richard Cobb (Eastman Kodak; Rochester Local Section), respectively.

The financial condition of the Northeast Region, Inc., is very good due to the financial success of the 2005 and 2006 Northeast Regional Meetings. Sinking fund loans of \$4,000 each have been provided to NERM 2009 and NERM 2010; the loans will be paid back if the net financial outcomes of the meetings are positive.

## Golf Tournament

Continued from page 10

send any comments or suggestions to Amy Tapper and Harry Mandeville at [nesacsgolf@gmail.com](mailto:nesacsgolf@gmail.com). ◇



Third-place team- Mahesh Padval, Ben Andrusaitis, Mark DaFonseca, Darrin Sloan



Second-place team- Gary Kelley, Steve Trahan, Dave Rogers, Anthony Tavalone

NERM 2009 will be hosted by the Connecticut Valley Local Section on October 7-10 at the Hartford Hilton in Hartford, Connecticut, with Julianne Smist as the General Chair and Tyson Miller (University of Connecticut) and Edward Fitzgerald (Trinity College) as the Program Chairs; <http://www.nerm2009.org>. Because the Middle Atlantic Regional Meeting (MARM) will not meet in 2009 and NERM will lead into the Columbus Day weekend and New England foliage displays, attendance of at least 500 (and most likely significantly more) is anticipated. Martin Walker (SUNY Potsdam; Northern New York Local Section) will serve as the General Chair for NERM 2010, June 2-5. An expression of interest has been advanced by the Central Massachusetts Local Section to host NERM 2011 in the Worcester area; programmatic and logistical support could be made available through the Northeastern Local Section. Christopher Masi will investigate the possibility of organizing the meeting, and will make a decision prior to the ACS National Meeting in

## NESACS-GDCh

Continued from page 23

An important contact I made through the Career Chair position was with ACS Career Services guru, Dan Eustace. As Dan and I came up with a strategy for applying and interviewing for my future position in industry, he provided helpful suggestions for refining my story and my message. He also offered introductions to his own colleagues, already in industry. These introductions and suggestions resulted in interviews and marked improvement of interview skills. Expansion of one's own professional network is crucial to successfully obtaining the career of choice. A strong professional network and great career advice can mitigate minor and major glitches. For me, whether in Konstanz, Germany or Cambridge, Massachusetts, the German Exchange has provided numerous opportunities to expand and strengthen my professional and social networks. When the two networks intersect, life changes can occur.

Carl Christianson (Boston College) and his wife, Jolene Schuster (Dartmouth College), each applied for the German exchange and were chosen during the interview and selection process for the most recent exchange to Rostock. They wanted to "put into context how the German Exchange has helped to shape, as a couple, [their] future scientific careers. The German Exchange was very influential for both our scientific careers. Traditionally, science is thought to be an individual endeavor. Due to the ever-increasing need for collaborative research in order to advance a particular field of science, the ability to utilize networking and communicational skills is becoming more important. By participating in the German Exchange, not only were

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Salt Lake City in March 2009. The Rochester Local Section is preparing a bid to host NERM 2012.

The Northeast Region Board will meet next during NERM 2009, October 7-10, at the Hartford Hilton in Hartford, CT. ◇



# BUSINESS DIRECTORY

## NESACS-GDCh

Continued from page 24

we able to attend a scientifically stimulating conference, but also we had numerous opportunities to work on communication skills with young chemists from different disciplines, backgrounds, and cultures. Having taken part in larger conferences in the past, we both found this to be an engaging and rewarding experience."

Carl and Jolene explained that, "prior to this exchange we had been considering several labs in Europe for possible postdoctoral positions. After interacting with faculty members and students during our time in Germany, we were intrigued by the idea of living and working there. This winter we will be moving to Berlin, Germany, to do our postdoctoral research. Having participated in the exchange, we have a group of friends and colleagues already in the area. We know that this will make the transition easier for us. We would highly recommend applying for spots on the next exchange to Germany, for the scientific, cultural and social benefits that it can and will yield. The connections and friendships that we made on the exchange are things for which we will always be grateful."

As detailed in these personal accounts, the German Exchange Program has influenced the career choices, as well as the professional and social networks, for many YCC and JCF members. One never can predict when one's social and professional networks will intersect, resulting in a synergism that delivers positive effects for a lifetime. It seems that through the years, the initial expectations have been met and exceeded, and we would all like for the program to continue.

We strongly encourage interested students within the Northeastern Section to seek out their NSYCC Campus Representatives as well as YCC members at our events ([www.nsycc.org](http://www.nsycc.org)). If you have questions, don't hesitate to ask ([leland.johnson@nsycc.org](mailto:leland.johnson@nsycc.org)), and by all means, complete the application for the 2009 NESACS-GDCh Exchange Program to Essen, Germany.

◇

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# Calendar

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for late additions:  
<http://www.NESACS.org>**

**Note also the Chemistry Department web  
pages for travel directions and updates.**

These include:

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<http://www.bu.edu/chemistry/events/>  
<http://www.chem.brandeis.edu/colloquium.shtml>  
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[www.uml.edu/Dept/Chemistry/speakers.html](http://www.uml.edu/Dept/Chemistry/speakers.html)  
<http://www.unh.edu/chemistry/seminars.html>

## Oct 1

Dr. Mark M. Turnbull (Clark University)  
 "Design and Synthesis of Low-Dimensional  
 Magnetic Lattices".  
 U Mass, Dartmouth, Building Group II, Room  
 118  
 4:00 pm

## Oct 2

Troy van Voorhis, (MIT)  
 TBA  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

## Oct 6

Stephen L. Buchwald (MIT)  
 The Max Tishler Prize Lectures  
 TBA  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

## Oct 7

Prof. Mary K. Pflum  
 Boston College, Merkert 130  
 4:00 pm

Prof. Bernadette T. Donovan-Merkert (Univ.  
 North Carolina, Charlotte)  
 "Electrochemically-Promoted Catalytic  
 Asymmetric Syntheses: Zapping Our Way to  
 Enantiomeric Purity"  
 Univ, New Hampshire, Room L103  
 11:10 am

## Oct 8

Dr. Ira Krull (Northeastern Univ.)  
 "Characterization of Recombinant Human  
 Monoclonal Tissue Necrosis Factor-alpha  
 Antibody Using Capillary Isoelectric Focusing,  
 Cation Exchange, Size Exclusion  
 Chromatography and Mass Spectrometry"  
 Northeastern Univ. 129 Hurtig Hall  
 12:00 noon

Dr. Christopher Doona, (U.S. Army NSRDEC)  
 "Comparing the Quasi-chemical and other  
 models for controlling food borne microbes  
 using novel technologies."  
 U Mass, Dartmouth, Building Group II,  
 Room 118 4:00 pm

Peter Ford (U.C., Santa Barbara)  
 TBA  
 MIT, 6-120  
 4:00 pm

## Oct 14

Prof. Phil Dawson  
 Boston College, Merkert 130  
 4:00 pm

Prof. Marisa C. Kozlowski (Univ. Penn.)  
 Univ, New Hampshire, Room L103  
 11:10 am

## Oct 15

Dr. Melisenda J. McDonald (Sandy), (UMass  
 Lowell)  
 TBA  
 U Mass, Dartmouth, Building Group II,  
 Room 118  
 4:00 pm

## Oct 16

Professor Masahiro Terada (Tohoku University,  
 Japan)  
 "Enantioselective Catalysis by Chiral Bronsted  
 Acid/Base through Hydrogen Bonding as  
 Strategic Interaction"  
 Boston College, Merkert 130  
 4:00 pm

## Oct 17

Kenichiro Itami (Nagoya University)  
 TBA  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

Chris Abell (University of Cambridge)  
 Novartis Lecture in Organic Chemistry  
 TBA  
 MIT, 6-120  
 4:00 pm

## Oct 20

David C. Corey (U. Texas Southwestern Medical  
 Center)  
 Bristol-Myers Squibb Lecture in Organic  
 Synthesis  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

## Oct 21

An Organic Symposium Sponsored by Bristol-  
 Myers Squibb  
 Dr. Rodney Parsons  
 Prof. Larry Overman (U.C., Irvine)  
 "Recent Studies in Alkaloid Total Synthesis"  
 Boston College, Merkert 130 4:00 pm  
 Prof. Barry Snider (Brandeis Univ.)  
 TBA  
 Univ, New Hampshire, Room L103  
 11:10 am

## Oct 22

Dr. Brian Blagg (Univ. Kansas)  
 "Designing Old Drugs for New Targets, a Case  
 Study with Novobiocin"  
 Northeastern Univ. 129 Hurtig Hall  
 12:00 noon

Prof. Q. Jason Cheng (U.C., Riverside)  
 "Supported Lipid Membrane Interfaces for  
 Biosensing with Surface Plasmon Resonance"  
 Boston College, Merkert 130  
 4:00 pm

Charles E. Kolb (Aeordyne Research Inc., MA.)  
 TBA  
 U. Mass, Dartmouth, Building Group II,  
 Room 118 4:00 pm

## Oct 27

Rustem Ismagilov (University of Chicago)  
 TBA  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

## Oct 28

Prof. John Koh  
 Boston College, Merkert 130  
 4:00 pm

## Oct 29

Jose Rivera (University of Puerto Rico)  
 "Adventures in Supramolecular Space Using 8-  
 Arylguanane Derivatives"  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

Dr. Terry Bowlin (Microbiotix, Inc)  
 "Discovery and Development of Novel Small  
 Molecule Inhibitors of Botulinum Neurotoxin A"  
 U Mass, Dartmouth, Building Group II,  
 Room 118 4:00 pm

Peter J. Sadler (Warwick University, UK)  
 Davison Lecture  
 MIT, 6-120 4:00 pm

## Oct 30

Prof. Emmaneel Lacote (Université Pierre et  
 Marie Curie, France)  
 TBA  
 Boston College, Merkert 130  
 4:00 pm

Laurence Barron (University of Glasgow)  
 TBA  
 Harvard, Pfizer Lecture Hall  
 4:00 pm

Jose Rivera (Univ. Puerto Rico)  
 TBA  
 MIT, 6-120 4:15 pm

## Notices for The Nucleus Calendar of Seminars should be sent to:

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 250 Kennedy Drive  
 Unit #403, Malden, MA 02148.  
 E-MAIL: serodman(at)hotmail.com ◇